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| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 09/853,156             | WANG ET AL.         |  |
|                               | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                               | Guillermo Munoz        | 2637                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed November 03, 2004.
2. ☒ The allowed claim(s) is/are 1,2 and 4-20, renumbered as 1-19, respectively.
3. ☒ The drawings filed on 11 May 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets" ) must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948 ) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                                 | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

  
**JEAN B. CORRIELUS**  
**PRIMARY EXAMINER**  
 3/21/05

**DETAILED ACTION**  
**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Request for authorization for this examiner's amendment was given in a telephone message to James McGraw on March 21, 2005.

The application has been amended as follows:

IN THE SPECIFICATION:

On page 1, line 2, insert —

Cross-References to Related Applications

This application is a continuation of International Application No. PCT/RU00/00181, filed 16 May 2000.

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IN THE CLAIMS:

In claim 12, on line 1 change "Apparatus" to —An apparatus—.

In claim 13, on line 1 change "Apparatus" to —The apparatus—.

In claim 14, on line 1 change "Apparatus" to —The apparatus—.

In claim 15, on line 1 change "Apparatus" to —The apparatus—.

In claim 15, on line 1 change "and including" to —further comprising—.

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In claim 16, on line 1 change "Apparatus" to —The apparatus—.

In claim 16, on line 1 change "and including" to —further comprising—.

In claim 17, on line 1 change "Apparatus" to —The apparatus—.

In claim 17, on line 1 change "and including" to —further comprising—.

In claim 18, on line 1 change "Apparatus" to —The apparatus—.

In claim 18, on line 1 change "and including" to —further comprising—.

In claim 19, on line 1 change "Apparatus" to —The apparatus—.

In claim 19, on line 1 change "and including" to —further comprising—.

In claim 20, on line 1 change "Apparatus" to —The apparatus—.

In claim 20, on line 1 change "and including" to —further comprising—.

***Allowable Subject Matter***

Claims 1, 2, 4-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1, 2, and 4-20 are considered allowable because the present invention comprises a apparatus having a feedback path from an equalizer to a tracking unit for producing tracked values of the indirect variables by the tracking unit. The closes prior art, Li et al. (cited in Office Action mailed August 04, 2004) shows a similar circuit including an apparatus for producing indirect variables representing an impulse response matrix. However, Li et al. fails to teach a feedback path from an equalizer to a tracking unit for producing tracked values of the indirect variables by the tracking unit. This distinct feature has been included in independent claims 1

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and 12 rendering them allowable. Claims 2, 4-11 and 13-20 are dependent on allowed claims and are thereby allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guillermo Munoz whose telephone number is 571-272-3045. The examiner can normally be reached on Monday-Friday 8:30a.m-4:30p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



GM  
March 21, 2005



JEAN B. CORRIELLUS  
PRIMARY EXAMINER

3/21/05